

What is claimed is:

1. A Luneberg lens antenna device, comprising:  
an antenna fixing bracket;  
5 an antenna body including a hemispherical Luneberg lens and a reflective plate for reflecting radio waves; and  
a fixing means for detachably affixing the reflective plate of the antenna body to the antenna fixing bracket,  
wherein fixing parts for cooperating with the fixing  
10 means are provided in advance in the reflective plate and the antenna fixing bracket; the antenna fixing bracket is secured to an antenna installation area; and the reflective plate is affixed to the antenna fixing bracket by using the fixing means.  
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2. The Luneberg lens antenna device of claim 1, wherein the reflective plate or an attachment provided on a rear surface of the reflective plate is affixed to the antenna fixing bracket by using a bolt or a bolt-nut combination.  
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3. The Luneberg lens antenna device of claim 1, wherein a hook and a hook receiver are provided in a mutually corresponding relationship on the reflective plate or an attachment provided on a rear surface of the reflective  
25 plate and on the antenna fixing bracket, and the reflective plate is hung on the antenna fixing bracket by using the

hook and the hook receiver.

4. The Luneberg lens antenna device of claim 1, wherein a plug and a socket are provided in a mutually corresponding relationship on the reflective plate or an attachment provided on a rear surface of the reflective plate and on the antenna fixing bracket, and the reflective plate is affixed to the antenna fixing bracket by inserting the plug into the socket.

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5. The Luneberg lens antenna device of claim 1, wherein an engaging groove is provided at the antenna fixing bracket; and opposite lateral edge portions of the reflective plate or an attachment provided on a rear surface of the reflective plate are brought into engagement with the engaging groove so that the reflective plate is supported by the antenna fixing bracket.

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6. The Luneberg lens antenna device of claim 1, wherein connector members each having a pin hole are provided in a mutually corresponding relationship at the reflective plate and the antenna fixing bracket; and the reflective plate is affixed to the antenna fixing bracket by coupling the connector members with a pin.

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7. The Luneberg lens antenna device of claim 1, wherein a

band and a band hanger are provided in a mutually corresponding relationship on a rear surface of the reflective plate and the antenna fixing bracket, and the reflective plate is affixed to the antenna fixing bracket by  
5 tying the band to the band hanger.

8. The Luneberg lens antenna device of claim 1, wherein an upright pole is provided at the antenna fixing bracket and the reflective plate is affixed to the antenna fixing  
10 bracket by fastening, with a bolt, a metal retainer to an attachment provided on a rear surface of the reflective plate in such a manner that the upright pole is sandwichedly positioned between the attachment and the metal retainer.